

PA-0044 US

<110> Jones, David A.  
Lasek, Amy W.

<120> GENES REGULATED BY DNA METHYLATION IN TUMOR CELLS

<130> PA-0044 US

<140> To Be Assigned

<141> Herewith

<160> 25

<170> PERL Program

<210> 1

<211> 669

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 980547.1

<400> 1

cacaacgcag	gcaccgactt	cagtgtgcat	gttccttggg	cacctgcctc	agtgtgcatg	60
ttcactgggc	atcttccctt	cgaacccctt	gcccacgtgg	tgaccgctgg	ggagctgtga	120
gagtgtgagg	ggcacgttcc	agccgtctgg	actctttctc	tcctactgag	acgcagccta	180
taggtccgca	ggccagtcct	cccaggaact	gaaatagtga	aatatgagtt	ggcgaggaag	240
atcaacatat	aggcctaggc	caagaagaag	tttacagcct	cctgagctga	ttggggctat	300
gcttactggc	tcccctttgt	cccaggaacc	cactgatgaa	gagcctaaag	aagagaaacc	360
accactaaa	agtcggaatc	ctacacctga	tcagaagaga	gaagatgata	aggggtgcagc	420
tgagattcaa	gtgcctgacc	tggaagccga	tctccaggag	ctatgtcaga	caaagactgg	480
ggatggatgt	gaaggtggta	ctgatgtcaa	ggggaagatt	ctaccaaag	cagagcactt	540
taaaatgcca	gaagcaggtg	aagggaaatc	acaggtttaa	aggaagataa	gctgaaacaa	600
cacaaactgt	ttttatatta	gatattttac	tttaaagagt	cttaataaat	ttttggcatg	660
ctcgatctc						669

<210> 2

<211> 588

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4030354CB1

<400> 2

tagctcagtg	cgcatgttca	ctgggcgtct	tctgccccgc	accttcgccc	acgtgaagaa	60
cgccaggagg	ctgtgaggca	gtgctgtgtg	gttcctgccc	tccggactct	ttttcctcta	120
ctgagattca	tctgtgtgaa	atatgagttg	gcgaggaaga	tcgacctatt	attggcctag	180
accaaggcgc	tatgtacagc	ctcctgaagt	gattgggcct	atgcggcccc	agcagttcag	240
tgatgaagtg	gaaccagcaa	cacctgaaga	aggggaacca	gcaactcaac	gtcaggatcc	300
tgcagctgct	caggagggag	aggatgaggg	agcatctgca	ggtcaagggc	cgaagcctga	360
agctcatagc	caggaacagg	gtcaccacac	gactgggtgt	gagtgtgaag	atggctcctga	420
tgggcaggag	atggaccgcg	caaattccaga	ggaggtgaaa	acgcctgaag	aaggtgaaaa	480
gcaatcacag	tgttaaaaga	aggcacgttg	aaatgatgca	ggctgctcct	atgttggaag	540
tttgttcatt	aaaattctcc	caataaagct	ttacagcctt	ctgcaaag		588

<210> 3

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3886578CB1

&lt;400&gt; 3

```

cttaagacgg tgaggtcagc ttcacattct caggaactct ccttctttgg gtctggctga 60
agttgaggat ctcttactct ctaggccacg gaattaaccc gagcaggcat ggaggcctct 120
gctctcacct catcagcagt gaccagtgtg gccaaagtgg tcagggtggc ctctggctct 180
gccgtagttt tgccctggc caggattgct acagttgtga ttggaggagt tgtggccatg 240
gcggtgtgct ccatggtgct cagtgccatg ggcttctactg cggcggaat cgcctcgtcc 300
tccatagcag ccaagatgat gtccgcggcg gccattgcc aatgggggtgg agttgcctcg 360
ggcagccttg tggctactct gcagtcactg ggagcaactg gactctccgg attgaccaag 420
ttcatcctgg gctccattgg gtctgccatt gcggctgtca ttgagaggtt ctactagctc 480
cctgcccctc gcctgcaga gaagagaacc atgccagggg agaaggcacc cagccatcct 540
gacccagcga ggagccaact atcccaaata tacctggggg gaaatatacc aaattctgca 600
tctccagagg aaaataagaa ataaagatga attgttgcaa ctcttaaaaa aaaaaaaaaa 660

```

&lt;210&gt; 4

&lt;211&gt; 1290

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1471808CB1

&lt;400&gt; 4

```

gcccaggctc ggtgaggagg caagtctctg agcctcagca tgcgctggcc ggatgtaccc 60
tgaggtgccc tctcacttcc tcttccaggt tctgagggga caggctgacc tggaggacca 120
gaggcccccg gaggagcact gaaggagaag atctgccagt gggctctccat tgcccagctc 180
ctgcccacac tcccgcctgt tgccctgacc agagtcacatc tgcctcttga gcagaggagt 240
cagcactgca agcctgaaga aggccttgag gcccaggagg aggcctggg cctgggtggg 300
gcgcaggctc ctgctactga ggagcaggag gctgcctcct cctcttctac tctagttgaa 360
gtcacccctg gggaggtgcc tgctgccgag tcaccagatc ctcccagag tctcaggga 420
gcctccagcc tcccactac catgaactac cctctctgga gccaatccta tgaggactcc 480
agcaaccaag aagaggagg gccaagcacc ttccctgacc tggagtctga gttccaagca 540
gcactcagta ggaaggtggc caagttgggt cattttctgc tcctcaagta tcgagccagg 600
gagccgggtc caaaggcaga aatgctgggg agtgcctcg gaaattggca gtacttcttt 660
cctgtgatct tcagcaaagc ttccgattcc ttgcagctgg tctttggcat cgagctgatg 720
gaagtggacc ccatcgcca cttgtacatc tttgccacct gcctgggect ctccctacgat 780
ggcctgctgg gtgacaatca gatcatgccc aagacaggct tcctgataat catcctggcc 840
ataatcgcaa aagaggggcga ctgtgcccct gaggagaaaa tctgggagga gctgagtgtg 900
ttagaggtgt ttgaggggag ggaagacagt atcttggggg atcccaagaa gctgctcacc 960
caacatttctg tgcaggaaaa ctacctggag taccggcagg tccccggcag tgatcctgca 1020
tgttatgaat tctgtggggg tccaagggcc ctgcttgaaa ccagctatgt gaaagtcctg 1080
caccatatgg taaagatcag tggaggacct cgcatttctc acccactcct gcatgagtgg 1140
gctttgagag agggggaaga gtgagttctga gcacgagttg cagccagggc cagtgggagg 1200
ggggttgggc cagtgcacct tccggggccc catcccttag tttccactgc ctctgtgac 1260
gtgaggccat tcttactct ttgaaggagg

```

&lt;210&gt; 5

&lt;211&gt; 1109

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3094768CB1

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; 953, 963-996, 1002-1012, 1016-1018, 1022-1023, 1030, 1032-1034, 1053, 1061, 1093

&lt;223&gt; a, t, c, g, or other

&lt;400&gt; 5

```

cctgcaccag gagacactgg gaggttttagt ccccaaacc gcacagagca ggactgcagc 60
ctgaggaaaag agcaaggatt tcaggagaga ggcctgcgac aagtgcagc gaaatagaaa 120
cttaagagaa atacacactt ctgagaaact gaaacgacag gggaaaggag gtctcactga 180
gcaccgtccc agcatccgga caccacagcg gcccttcgct ccacgcagaa aaccacactt 240

```

ctcaaacctt	cactcaacac	ttccttcccc	aaagccagaa	gatgcacaag	gaggaacatg	300
aggtggctgt	gctgggggca	ccccccagca	ccatccttcc	aaggtccacc	gtgatcaaca	360
tccacagcga	gacctccgtg	cccgaccatg	tcgtctggtc	cctgttcaac	accctcttct	420
tgaactgggt	ctgtctgggc	ttcatagcat	tcgcctactc	cgtgaagtct	agggacagga	480
agatgggttg	cgacgtgacc	ggggcccagg	cctatgcctc	caccgccaag	tgcctgaaca	540
tctggggccct	gattctgggc	atcctcatga	ccattggatt	catcctgtta	ctggatttcg	600
gctctgtgac	agtctaccat	attatgttac	agataatata	ggaaaaacgg	ggttactagt	660
agccgccccat	agcctgcaac	ctttgcactc	cactgtgcaa	tgctggccct	gcacgctggg	720
gctgttgccc	ctgccccctt	ggctcctgcc	ctagatacag	cagtttatac	ccacacacct	780
gtctacactg	acattcaata	aagtgcagtg	cttgtgaaaa	aaaaaacaat	aaaacccgag	840
ggggggggcgg	gaccttcttc	gccctaaggg	gaggatatac	attcccgggc	ggtgttatac	900
acgctgggat	gggacacctt	gggtatccaa	ttaacgcctg	catccttcag	agncccgggg	960
atnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnncac	annnnnnnnn	nncccnnncc	1020
cnnccaccn	cnnccccac	actctcccc	acncacccca	naacaaacac	ccagccctca	1080
ccatccctca	canaattcca	ccctatccg				1109

&lt;210&gt; 6

&lt;211&gt; 2931

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1097797.1

&lt;400&gt; 6

ggatccggcc	ggatctcagg	gaggtgagga	ctttgttctc	agaggggtgtg	tgtggacaaa	60
acagggaggc	cctgtgttcg	acagacacag	tggtcccagg	attggagagc	agtccagggtg	120
aggaacctaa	gggaggatcg	agggtagctc	caggccagag	aaactctcag	atcaagagag	180
tttgccctgc	ccctactgtc	accccagaga	gcccgggcag	ggctgtctgc	tgagggtccct	240
cctttatcct	gggatcactg	gtgtcgggga	gggctggcct	tggtctgagg	gggctgcact	300
cacgtcagca	gagggagggt	cccaggccct	gccaggagtc	caggtgcaga	ctgaggggac	360
cccactcacc	aaacacagag	gacctagccc	caccctgccc	cttgtgtcag	ctgaggggaag	420
ccgctgggtg	gatggactcc	cctcacttcc	tcttcagggtg	tctcctggag	atagggcctc	480
aggtcaacag	agggagggtt	ccagaccttg	caggcatcaa	gatgaggacc	aggcagtatc	540
ctcaccccag	gacacatgga	ccccattgta	tttagacatc	tcttactgta	cttccgagga	600
aaccctgggc	aggtgtgggc	agatgttggt	tggggcatgt	ccttctgttc	catatcaggg	660
atgtgagctc	ctgatctgag	agactctcag	gcaagtagag	gagtagagtc	cagtcctctg	720
caggagaaaag	gtcagggccc	tgagttagcg	cagaggggac	catccacccc	aaaagtgtgt	780
agaactcaag	agtgtccagc	ccgccgtctt	gacagcactg	agggaccggg	gctctgcctg	840
cagtctgcag	cctaagggcc	cctcgattcc	tcttcaggga	gctccaggaa	gcaggcaggc	900
cttggtctga	gacagtgtcc	tcaggtcgca	gagcagagga	gacccaggga	gtgtcagcag	960
tgaaggtgaa	gtgttcaccc	tgaatgtgca	ccaagggccc	cacctgcccc	agcacacatg	1020
ggaccccata	gcacctggcc	ccattccccc	tactgtcact	catagagcct	tgatctctgc	1080
aggctagctg	cacgctgagt	agccctctca	cttccctccc	caggttctcg	ggacaggcta	1140
accaggagga	caggagcccc	aagaggcccc	agagcagcac	tgacgaagac	ctgtaagtca	1200
gcctttgtta	gaacctccaa	ggttcgggtc	tcagctgaag	tctctcacac	actccctctc	1260
tccccaggcc	tgtgggtctc	catcgcccag	ctcctgcccc	cgctcctgac	tgctgccctg	1320
accagagtca	tcattgtctct	cgagcagagg	agtcgcgact	gcaagcctga	tgaagacctt	1380
gaagcccaag	gagaggactt	gggcctgatg	ggtgcacagg	aaccacacag	cgaggaggag	1440
gagactacct	cctcctctga	cagcaaggag	gaggagggtg	ctgctgctgg	gtcatcaagt	1500
cctccccaga	gtcctcaggg	aggcgcttcc	tcttccattt	ccgtctacta	cacttttatgg	1560
agccaattcg	atgagggtct	cagcagtgaa	gaagaggaag	agccaagctc	ctcggctcac	1620
ccagctcagc	tggagttcat	gttccaagaa	gcactgaaat	tgaaggtggc	tgagttgggt	1680
catttcctgc	tccacaaata	tcgagtcaag	gagccggtca	caaaggcaga	aatgctggag	1740
agcgtcatca	aaaattacaa	gcgctacttt	cctgtgatct	tcggcaaagc	ctccgagttc	1800
atgcagggtga	tctttggcac	tgatgtgaag	gaggtggacc	ccgccggcca	ctcctacatc	1860
cttgctcactg	ctcttggcct	ctcgtgcgat	agcatgctgg	gtgatgggtca	tagcatgccc	1920
aaggccgccc	tctgatcat	tgtcctgggt	gtgatcctaa	ccaaagacaa	ctgcgcccct	1980
gaagaggtta	tctgggaagc	gttgagtgtg	atgggggtgt	atggtgggaa	ggagcacatg	2040
ttctacgggg	agcccaggaa	gctgctcacc	caagattggg	tgcaggaaaa	ctacctggag	2100
taccggcagg	tgcccggcag	tgatcctgcg	cactacgagt	tctgtggggg	ttccaaggcc	2160
cacgctgaaa	ccagctatga	gaaggtcata	aattatttgg	tcattgctcaa	tgcaagagag	2220
cccatctgct	acccatccct	ttatgaagag	gttttggggg	aggagcaaga	gggagtctga	2280
gcaccagccg	cagccggggc	caaagtttgt	ggggtcaggg	ccccatccag	cagctgccct	2340
gccccatgtg	acatgaggcc	cattcttcgc	tctgtgtttg	aagagagcaa	tcagtgttct	2400

```

cagtggcagt ggggtggaagt gagcacactg tatgtcatct ctgggctcct cgtctattga 2460
atgatttggg gctttatcct tgctcccttt tggaattggt caaatgttct tttaatgggtc 2520
agtttaatga acttcaccat cgaagttaat gaatgacagt agtcacacat attgctgttt 2580
atgttattta ggagtaagat tcttgctttt ggtcacatg gggaaatccc tgttattttg 2640
tgaattggga caagataaca tagcagagga attaataatt tttttgaaac ttgaacttag 2700
cagcaaaata gagctcataa agaaatagtg aaatgaaat gtagttaatt cttgccttat 2760
acctctttct ctctcctgta aaattaaaat atatacatgt atacctggat ttgcttgggt 2820
tctgggtgga tgaagagaa ataaaaattg aaagaataat ttttcctgtt cactgggtca 2880
ttttttcttc agacacgcac tgaacatctg ttattcggaa caccctgggt t 2931

```

&lt;210&gt; 7

&lt;211&gt; 1084

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 476210.8

&lt;400&gt; 7

```

taaaaagcca gccttcagcc ggagaaccgt ttactcgctg ctgtgccccat ctatcagcag 60
gctccgggct gaagattgct tctcttctct cctccaaggt ctagtgacgg agcccgcgcg 120
cggcgccacc atgcggcaga aggcgggtatc gcttttcttg tgctacctgc tgctcttcac 180
ttgcagtggg gtggaggcag gtaagaaaaa gtgctcggag agctcggaca gcggctccgg 240
gttctggaag gccctgacct tcatggccgt cggaggagga ctgcagtcg ccgggctgcc 300
cgcgctgggc ttcaccggcg ccggcatcgc ggccaactcg gtggctgcct cgctgatgag 360
ctggtctcgg atcctgaatg ggggcggcgt gcccgcgggg gggctagtgg ccacgctgca 420
gagcctcggg gctggtggca gcagcgtcgt cataggtaat attggtgcc tgatgggcta 480
cgccacccac aagtatctcg atagtgagga ggatgaggag tagccagcag ctcccagaac 540
ctcttcttcc ttcttgccct aactcttcca gttaggatct agaactttgc cttttttttt 600
tttttttttt ttttgagatg ggttctcact atattgtcca ggctagagtg cagtggctat 660
tcacagatgc gaacatagta cactgcagcc tccaactcct agcctcaagt gatcctcctg 720
tctcaacctc ccaagtagga ttacaagcat gcgccgacga tgcccagaat ccagaacttt 780
gtctatcact ctccccaaac acctagatgt gaaaacagaa taaacttcac ccagaaaaca 840
ctttgtcctg ctgtcaatca tgtttgcagt gagaagccca aaacaatctg gctctggcct 900
gcaccatcca cacaccccca ttcccathtt cccctcgagt caaccacagc tcttggaaac 960
caaccagttg attttgttt tgggccttag cacatgttgg tctctacctg gatgccttca 1020
gaagctcatc tgctgaaaa actcccttcc atccttccag actcagttca gacatcccc 1080
cctc 1084

```

&lt;210&gt; 8

&lt;211&gt; 4226

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 236484.15

&lt;400&gt; 8

```

tttcgctttc ctgcgcagag tctgcggagg ggctcggctg caccggggggg atcgcgctg 60
gcagacccca gaccgagcag aggcgaccca gcgcgctcgg gagaggctgc accgcgcgcg 120
ccccgcctag cccttccgga tctgcgcgc agaaaagtgt catttgctgt atgccatcct 180
cgagagctgt ctaggttaac gttegcactc tgtgtatata acctcgacag tcttggcacc 240
taacgtgctg tgcgtagctg ctcttttggg tgaatcccca ggcccttgtt ggggcacaa 300
gtggcaggat gtctcagtgg tacgaacttc agcagcttga ctcaaaattc ctggagcagg 360
ttcaccagct ttatgatgac agttttccca tggaaatcag acagtacctg gcacagtgg 420
tagaaaagca agactgggag cacgctgcca atgatgtttc atttgccacc atccgttttc 480
atgacctcct gtcacagctg gatgatcaat atagtcgctt ttctttggag aataacttct 540
tgctacagga taacataagg aaaaagcaagc gtaatcttca ggataatttt caggaagacc 600
caatccagat gtctatgatc atttacagct gtctgaagga agaaaggaaa attctggaaa 660
acgcccagag atttaatcag gctcagtcgg ggaatattca gagcacagt atgttagaca 720
aacagaaaag gcttgacagt aaagtcagaa atgtgaagga caaggttatg tgtatagagc 780
atgaaatcaa gagcctggaa gatttacaag atgaatatga cttcaaattgc aaaaccttgc 840
agaacagaga acacgagacc aatgggtgtg caaagagtga tcagaaacaa gaacagctgt 900
tactcaagaa gatgtattta atgcttgaca ataagagaaa ggaagtagtt cacaaaaata 960

```

10051835.011502

tagagttgct	gaatgtcact	gaacttaccc	agaatgccct	gattaatgat	gaactagtg	1020
agtgggaagcg	gagacagcag	agcgccctgta	ttggggggcc	gcccaatgct	tgcttggatc	1080
agctgcagaa	ctgggttctact	atagttgctgg	agagtcctgca	gcaagttcgg	cagcagctta	1140
aaaagtgtgga	ggaatttgaa	cagaaatata	cctacgaaca	tgaccctatc	acaaaaaaca	1200
aacaagtgtt	atgggaccgc	accttcagtc	ttttccagca	gctcattcag	agctcgtttg	1260
tggttgaaag	acagccctgc	atgccaacgc	accctcagag	gccgctggtc	ttgaagacag	1320
gggtccagtt	cactgtgaag	ttgagactgt	tggtgaaatt	gcaagagctg	aattataatt	1380
tgaaagtcaa	agtcttattt	gataaagatg	tgaatgagag	aaatacagta	aaaggattta	1440
ggaagttaa	catttttgggc	acgcacacaa	aagtgatgaa	catggaggag	tccaccaatg	1500
gcagtcctggc	ggctgaattt	cggcacctgc	aattgaaaga	acagaaaaat	gctggcacca	1560
gaacgaatga	gggtcctctc	atcgttactg	aagagcttca	ctcccttagt	tttgaaaccc	1620
aattgtgcc	gcctgggtttg	gtaattgacc	tcgagacgac	ctctctgccc	gttgtgggtga	1680
tctccaacgt	cagccagctc	ccgagcgggt	gggcctccat	cctttggtac	aacatgctgg	1740
tggcggaacc	caggaatctg	tcctttcttc	tgactccacc	atgtgcacga	tggtgctcagc	1800
tttcagaagt	gctgagttgg	cagttttctt	ctgtcaccaa	aagaggtctc	aatgtggacc	1860
agctgaacat	gttgggagag	aagctttctg	gtcctaacgc	cagccccgat	ggctctcattc	1920
cgtggacgag	gttttgtaag	gaaaatataa	atgataaaaa	ttttcccttc	tggtctttgga	1980
ttgaaagcat	cctagaactc	attaaaaaac	acctgctccc	tctctggaat	gatgggtgca	2040
tcatgggctt	catcagcaag	gagcgagagc	gtgccctgtt	gaaggaccag	cagccgggga	2100
ccttcctgct	gcggttcagt	gagagctccc	gggaaggggc	catcacattc	acatgggtgg	2160
agcgggtccc	gaacggaggc	gaacctgact	tccatgcggt	tgaaccctac	acgaagaaag	2220
aaatttctgc	tgttactttc	cctgacatca	tctcgcaatta	caaagtcattg	gctgtcgaga	2280
atattcctga	gaatccctcg	aagtatctgt	atccaaatat	tgacaaagac	catgcctttg	2340
gaaagtatta	ctccaggcca	aaggaagcac	cagagccaat	ggaacttgat	ggccctaaag	2400
gaactggata	tatcaagact	gagttgattt	ctgtgtctga	agttcaccct	tctagacttc	2460
agaccacaga	caacctgctc	cccattgtctc	ctgaggagtt	tgacgagggtg	tctcggatag	2520
tgggctctgt	agaattcgac	agtatgatga	acacagtata	gagcatgaat	ttttttcatc	2580
ttctctgggc	acagtttttc	ttctcatctg	tgattccctc	ctgctactct	gttctctcag	2640
atcctgtggt	tctagggaaa	tgaagaaaag	gccagcaaat	tcgctgcaac	ctgttgatag	2700
caagtgaatt	tttctctaac	tcagaaacat	cagttactct	gaagggcac	atgcattcta	2760
ctgaaggtaa	aattgaaagg	cattctctga	agagtgggtt	tcacaagtga	aaaacatcca	2820
gatacaccca	aagtatcagg	acgagaatga	gggtcctttg	ggaaaggaga	agttaagcaa	2880
catctagcaa	atgttatgca	taaagtcagt	gccccactgt	tataggttgt	tggtataaatc	2940
agtgggtatt	tagggaactg	cttgacgtag	gaacggtaaa	tttctgtggg	agaattctta	3000
catgttttct	ttgcttttaag	tgttaactggc	agttttccat	tggtttacct	gtgaaatagt	3060
tcaaagccaa	gtttatatac	aattatatca	gtcctctttc	aaaggtagcc	atcatggatc	3120
tggtaggggg	aaaatgtgta	ttttattaca	tctttcacat	tggtatttta	aagacaaaga	3180
caaattctgt	ttcttgagaa	gagaatatta	gctttactgt	ttgttatggc	ttaatgacac	3240
tagctaatat	caatagaagg	atgtacattt	ccaaattcac	aagttgtgtt	tgatatccaa	3300
agctgaatac	attctgcttt	catcttgggtc	acatacaatt	atttttacag	ttctcccaag	3360
ggagtttaggc	tattcacaac	cactcattca	aaagttgaaa	ttaaccatag	atgtagataa	3420
actcagaaat	tttaattcatg	tttctttaat	gggtactttt	gtcctttttg	ttattagggg	3480
ggtatttagt	ctattagcca	caaaattggg	aaaggagtag	aaaaagcagt	aactgacaac	3540
ttgaataata	caccagagat	aatatgagaa	tcagatcatt	tcaaaactca	tttcttatgt	3600
aactgcattg	agaactgcat	atgtttcgct	gatatatgtg	tttttcacat	ttgcgaatgg	3660
ttccattctc	tctcctgtac	tttttccaga	cacttttttg	agtggatgat	gtttcgtgaa	3720
gtatactgta	tttttacctt	tttcttctct	tatcactgac	acaaaaagta	gattaagaga	3780
tgggtttgac	aaggttcttc	ccttttacat	actgctgtct	atgtggctgt	atcttgtttt	3840
tccactactg	ctaccacaac	tatattatca	tgcaaatgct	gtattcttct	ttgggtggaga	3900
taaagatttc	ttgagttttg	ttttaaaatt	aaagctaaag	tatctgtatt	gcattaaata	3960
taatatgcac	acagtgcctt	ccgtggcact	gcatacaatc	tgaggcctcc	tctctcagtt	4020
tttatataga	tggcgagaac	ctaagtttca	gttgatttta	caattgaaat	gactaaaaaa	4080
caaagaagac	aacattaaaa	caatattggt	tctaattgct	gaggtttagc	tgctcagttct	4140
ttttgccctt	tgggaattcg	gcattggtttc	attttactgc	actagccaag	agacttactt	4200
ataagaagta	ttaaatctaa	aattct				4226

<210> 9  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 050715.3

<220>

PA-0044 US

<221> unsure

<222> 506

<223> a, t, c, g, or other

<400> 9

ggaaagtgga	catgcaagag	gtgggttatt	cctcacccta	tttcttgatg	cctcctgact	60
gctggtgttg	gggcacacag	atgggtgatg	cacttcttgg	tcaaggcaac	ctcagcccca	120
ctcacgtaag	gtggtcatgg	cagagagtgt	tagggtgaca	cctgtgaaaa	agaccaaggg	180
cagggatggg	agcccttctt	gcagcaggag	tggatgcagg	acctgcctgg	aagcaagaga	240
aggacgaggg	accctggctg	ggccctgttt	cctcccactg	cctgggttcac	aaagcaacca	300
gtaagggagg	tggagttagg	aattcactca	tgtgctactt	actgatccag	agatgtgttc	360
gttgacattt	tcttttatgt	tttcagggtt	atgtcattta	cacattcatg	catttatgtt	420
gtgtatttat	tagtcttgtt	tatttttagt	agcaagtgtc	acttgttgaa	ttctgttctc	480
ataggtataa	attttcatat	tcatgnagtt	ttataatcc			519

<210> 10

<211> 1752

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 197880.1

<400> 10

gccccggcgag	ggcgccgggtg	ctttgttctg	tctgaggcca	ggaagtttga	ccgcgctgcc	60
atgccgaacc	gtaaggccag	ccggaatgct	tactatttct	tcgtgcagga	gaagatcccc	120
gtaactacgg	cgacgaggcc	tgccgttggc	tcgcgttggc	gatgccatcc	cttactgctc	180
ctcagactgg	gcgcttctga	gggaggaaga	aaaggagaaa	tacgcagaaa	tggttctcag	240
aatggagggg	cgctcaggga	aaggaccctg	ggccctcaga	gaagcagaaa	cctgttttca	300
caccactgag	gaggccaggc	atgcttgtac	caaagcagaa	tgtttcacct	ccagatatgt	360
cagctttgtc	tttaaaaggt	gatcaagctc	tccttggagg	cattttttat	attttgaagc	420
atttttaagc	catggggagc	taactcctca	ttgggaaaag	cgcgttctcc	cctgttgaaa	480
atgggtgggg	ttaagtattc	tctccaagaa	ggtattatgg	cagatttcca	cagttttata	540
aatccctggg	gaaattccac	gaggatttgc	atttcattgt	caggctgcaa	gtgattctag	600
tcacaagatt	cctattttcaa	atcttggaa	cggttgccct	aaccaacca	tcgtgtgtta	660
caaaaccttt	atagatttat	tcattccca	ccagggaact	ggccacctat	ctactgcaag	720
tctgatgata	gaaccagagt	caactgggtg	ttgaagcata	tggcaaaggc	atcagaaatc	780
aggcaagatc	tacaacttct	cactgtagag	gacctttag	tggggatcta	ccaacaaaaa	840
tttctcaagg	agccctctaa	gactttggat	tcgaagcctc	ctagatgtgg	ccatgtggga	900
gtattctagc	aacacaaggt	gcaagtggca	tgaagaaaat	gatattctct	tctgtgcttt	960
agctgtttgc	aagaagattg	cgtactgcat	cagtaattct	ctggccactc	tctttggaat	1020
ccagctcaca	gaggctcatg	taccactaca	acgattatga	ggccagcaat	agtgtgacac	1080
ccaaaatggt	tgtattggat	gcagggcggt	accagaagct	aagggttggg	agttcaggat	1140
tctctcattt	caactcttct	aatgaggaac	aaagatcaaa	cacagcccat	tgatgactac	1200
accatctagg	gcaagaaatt	tcttggccaa	gaacacgcag	cggtcgggga	aagaggaatt	1260
accccgccct	tactagagag	catttccaat	tcttcccagc	aatatccaca	aattctccaa	1320
ctgtgacact	tcactctcac	cttacatgtc	ccaaaaagat	ggatacagaa	tctttctctt	1380
ccttatctta	atgatggtac	tcttttcaat	ttctgaaaac	agtaacaggc	ccaacttccc	1440
tccttactac	agtcatatta	aacagatcac	atcaatgaca	aaatgtcact	actataaaaa	1500
ctacttaatt	tgttaaggaaa	ttgtttcata	gatttataaaa	aattgtgggt	ggagagaatc	1560
tttggcattt	gtgctttttt	tcttgaggga	ttgttctgct	tcctggctgt	atgatgggta	1620
tatcattaaa	gtttggagtc	ctatatgaac	aaaactgaca	tttttagagt	tgtacttttg	1680
ggaatgttat	agattgatca	ttctttctcc	tgataataaa	ggtattgaat	atctgttatg	1740
aaaggttcta	aa					1752

<210> 11

<211> 509

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 064516CB1

<400> 11

10051835.01503

gagttgtgag	ggtgtgaggg	tgcggttcct	gctgtctgga	ctttttctgt	cccactgaga	60
cgcagctgtg	tgaaatatga	tttggcgagg	aagatcaaca	tataggccta	ggccgaggag	120
aagtgtacca	cctcctgagc	tgattgggcc	tatgctggag	cccgggtgatg	aggagcctca	180
gcaagaggaa	ccaccaactg	aaagtgcgga	tctgcacct	ggtcaggaga	gagaagaaga	240
tcaggggtgca	gctgagactc	aagtgcctga	cctgggaagct	gatctccagg	agctgtctca	300
gtcaaagact	gggggtgaat	gtggaaatgg	tcctgatgac	caggggaaga	ttctgccaaa	360
atcagaacaa	tttaaaatgc	cagaaggagg	tgacaggcaa	ccacaggttt	aaatgaagac	420
aagctgaaac	aacacaaaac	tgtttttatc	taagatattt	gacttaaaaa	tatcaaaaata	480
aactttttgca	gcttttctcca	aaaaaaaaa				509

<210> 12  
 <211> 800  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 347492.1

<400> 12						
ctctcctcca	gcaaggtcag	gacttcagga	ctgaaacaat	gaccgataaa	acagagaagg	60
tggctgtaga	tcctgaaact	gtgttttaa	gtcccaggga	atgtgacagt	ccttcgtatc	120
agaaaaggca	gaggatggcc	ctgttgggca	ggaaacaagg	agcaggagac	agccttattg	180
caggctctgc	catgtccaaa	gaaaagaagc	ttatgacagg	acatgctatt	ccaccagacc	240
aattggattc	tcagattgat	gacttcaact	gtttcagcaa	agataggatg	atgcagaaac	300
ctggtagcaa	tgcacctgtg	ggaggaaaac	ttaccagcag	tttctctgga	gatgacctag	360
aatgcagaga	aacagcctcc	tctcccaaaa	gccaacgaga	aattaatgct	gatataaaac	420
gtaaattagt	gaaggaaact	cgatgcgttg	gacaaaaata	tgaaaaaatc	ttcgaaatgc	480
ttgaaggagt	gcaaggacct	actgcagtca	ggaagcgatt	ttttgaatcc	atcatcaagg	540
aagcagcaag	atgtatgaga	cgagactttg	ttaagcacct	taagaagaaa	ctgaaacgta	600
tgatttgaga	atacttgtcc	ctggaggatt	atcacacccc	aaatgcataa	tctcgttaat	660
gattgaggag	agaaaaggat	cagattgctg	ttttctacaa	tggagcagga	tattgctgaa	720
gtctcctggc	atatgttacc	gaatcaaata	gccttccaga	ggctaagaaa	tttctgttag	780
taaaagatgt	tctttttccc					800

<210> 13  
 <211> 3505  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 236992.2

<400> 13						
ggctttggca	tgatggggcac	ctggaggggcc	gcactcccgt	tccagccagg	ctgagccttc	60
tgtcccctgc	ctctgggggcc	tgggaacccc	ccttcttctt	tctcctgaat	ggcaccctcg	120
ccctagaatc	cagacaccga	gtttcccact	gtggctgggt	caaggggatg	tgagagctcc	180
ctggtgacag	tctgtggctg	agcatggccc	tcccagccct	gggcctggac	ccctggagcc	240
tcttgggcct	tttctctctc	caactgcttc	agctgctgct	gccgacgacg	accgcggggg	300
gaggcgggca	ggggcccatg	cccagggtca	gatactatgc	aggggatgaa	cgtagggcac	360
ttagcttctt	ccaccagaag	ggcctccagg	attttgacac	tctgctcctg	agtgggtgatg	420
gaaatactct	ctacgtgggg	gctcgagaag	ccattctggc	cttgatatc	caggatccag	480
gggtccccag	gctaaagaac	atgataccgt	ggccagccag	tgacagaaaa	aagagtgaat	540
gtgcctttaa	gaagaagagc	aatgagacac	agtgtttcaa	cttcacccgt	gtcctggttt	600
cttacaatgt	cacccatctc	tacacctgcg	gcaccttcgc	cttcagccct	gcttgtaact	660
tcattgaact	tcaagattcc	tacctgttgc	ccatctcgga	ggacaagggtc	atggaggggaa	720
aaggccaaaag	cccctttgac	cccgtccaca	agcatacggc	tgtcttgggtg	gatgggatgc	780
tctattctgg	tactatgaac	aacttctctg	gcagtgaagg	catcctgatg	cgcacactgg	840
gatccccagc	tgtcctcaag	accgacaact	tctccgctg	gctgcatcat	gacgcctcct	900
ttgtggcagc	catcccttcg	accaggtcgc	tctacttctt	cttcgaggag	acagccagcg	960
agtttgactt	ctttgagagg	ctccacacat	cgcggtgggc	tagagtctgc	aagaatgacg	1020
tgggcggcga	aaagctgctg	cagaagaagt	ggaccacctt	cctgaaggcc	cagctgctct	1080
gcacccagcc	ggggcagctg	cccttcaacg	tcacccgcca	cgcggtcctg	ctccccgccg	1140
attctccac	agctccccac	atctacgcag	tcttcacctc	ccagtggcag	gttggcgggga	1200
ccaggagctc	tgcggtttgt	gccttctctc	tcttggacat	tgaacgtgtc	tttaagggga	1260

1005183\_01602  
 205770 "seq500"

aatacaaaaga gttgaacaaa gaaacttcac gctggactac ttataggggc cctgagacca 1320  
acccccggcc aggcagttgc tcagtgggcc cctcctctga taaggccctg accttcatga 1380  
aggaccattt cctgatggat gagcaagtgg tggggacgcc cctgctggtg aaatctggcg 1440  
tggagtatac acggcttgca gtggagacag cccagggcct tgatgggcac agccatcttg 1500  
tcatgtacct gggaaccacc acagggctgc tccacaaggc tgtggtaagt ggggacagca 1560  
gtgctcatct ggtggaagag attcagctgt tccctgaccc tgaacctgtt cgcaacctgc 1620  
agctggcccc caccagggt gcagtgtttg taggcttctc aggaggtgtc tggaggggtc 1680  
cccagccaa ctgtagtgtc tatgagagct gtgtggactg tgtccttgcc cgggaccccc 1740  
actgtgcctg ggaccctgag tcccgaacct gttgcctcct gtctgcccc aaacctgaact 1800  
cctggaagca ggacatggag cgggggaacc cagagtgggc atgtgccagt ggcccatga 1860  
gcaggagcct tcggcctcag agccgccccgc aaatcattaa agaagtcctg gctgtcccta 1920  
actccatcct ggagctcccc tccccccacc tgtcagcctt ggccctcttat tattggagtc 1980  
atggcccagc agcagtecca gaagcctctt ccactgtcta caatggctcc ctcttgctga 2040  
tagtgacagga tggagttggg ggtctctacc agtgctgggc aactgagaat ggcttttcat 2100  
accctgtgat ctctactgg gtggacagcc aggcacagac cctggccctg gatcctgaac 2160  
tggcaggcat ccccgggag catgtgaagg tcccgctgac cagggtcagt ggtggggccg 2220  
ccctggctgc ccagagctcc tactggcccc actttgtcac tgtcactgtc ctctttgcct 2280  
tagtgctttc aggagccctc atcatcctcg tggcctcccc attgagagca ctccgggctc 2340  
ggggcaaggt tcagggtgtg gagaccctgc gccctgggga gaaggccccg ttaagcagag 2400  
agcaacacct ccagtctccc aaggaatgca ggacctctgc cagtgatgtg gacgctgaca 2460  
acaactgcct aggcactgag gtagcttaaa ctctaggcac aggcgggggc tgcggtgcag 2520  
gcacctggcc atgtggctg ggcggcccaa gcacagccct gactaggatg acagcagcac 2580  
aaaagaccac ctttctcccc tgagaggagc ttctgtact ctgcatcact gatgacactc 2640  
agcagggtga tgcacagcag tctgcctccc ctatgggact cccttctacc aagcacatga 2700  
gctctctaac aggggtgggg ctacccccag acctgctcct aactgatata tgaagaacct 2760  
ggagaggatc cttcagttct ggccattcca gggacctcc agaaacacag tgtttcaaga 2820  
gaccctaaaa aacctgcctg tcccaggacc ctatggtaat gaacacaaa catctaaaca 2880  
atcatatgct aacatgccac tcttggaaac tccacttga agctgccgt ttggacacca 2940  
acactccctt ctcccagggt catgcaggga tctgtccct cctgcttccc ttaccagtcg 3000  
tgcaccgctg actcccagga agtcttccct gaagtctgac cacctttctt cttgcttcag 3060  
ttggggcaga ctctgatccc ttctgccctg gcagaatggc aggggtaatc tgagccttct 3120  
tactcctttt accctagctg accccttcac ctctccccct cccttttccct ttgttttggg 3180  
attcagaaaa ctgcttgctc gagactgttt attttttatt aaaaatataa ggcttatgta 3240  
tgatgggtgc tgtgtttgct ggagcagagt gctccggcag agaattgctg ggatgtcaag 3300  
ggagcaagca tcccaagcac atcagttggg aggaggacta ggtttgtggg gggattgttc 3360  
tctccaactc cagactacct cctctgccct gccagctccc caccagaac cagccacccc 3420  
agaaccagcc cacagcactt tctccactc tgagcattgc tagagggtgc tgcaaacctt 3480  
tgccttttgg gcccaaccaca ggttg 3505

<210> 14  
<211> 696  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 213413.1

<400> 14  
taaaatatct gataggcagt tagaaatttg agtttggaa acaggagaga ggctttgatg 60  
gcgatacaga cttggaagac atcagtgtct agcagtaaat gagatgattc agggaaagagt 120  
ataaactggg aagaggacag aggacaggct caaggaacat atttaaggac tgggtagaaa 180  
aacaagagag tatgaacaag agtgaggaga ttattagcag tgacctttga gagtacatct 240  
ctagagtggg atgtgtagag ccagattttc agcatcagaa ccatcaagca ttttgggggt 300  
ggaaggaaaa ggagccatga atcaaaagg ggggaaaagg ccttttggga ggtggcagt 360  
tgggtaggga gtagggctcc ggttagaata catggatgaa agaaagggtg gcacagccat 420  
ttcctttaca acagaaataa cagatttccc agcctctaac caaagaaaca acaagtttgg 480  
gaacattcct ctcttctgaa atatgaaaga gaggggataa atactggagt aggattgtga 540  
aaaaagtcaa gagaaaaaaa aagaacagcc caagtgtaac agatacttct ccatgggatg 600  
gtaaaaagga agttatttca ataaaatgac cccttgggag gagttcaaaa caggttgcca 660  
tatgctttat gtggagtttt gaaaaatata taaaat 696

<210> 15  
<211> 1619  
<212> DNA  
<213> Homo sapiens



<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 032481.1

<220>  
 <221> unsure  
 <222> 83-106  
 <223> a, t, c, g, or other

<400> 15  
 ttaatctaca tatcttatgt atataaatat tgcctaattcc atagaaaaaa ggatataaag 60  
 tattaaatat gtgatataata gcnnnnnnnnn nnnnnnnnnnn nnnnnnatag ggaagttcaa 120  
 gtcacttcaa ttgaagaac atatatctga gcataggagc agcctcaggt cctatggtgg 180  
 gatgcagtg acaggagagg gggaaattag aaaagagaac tatataattg aaaaggggat 240  
 ataaagcatt aaatatatga tatatagcta tatctatgta tgtatctaac agagaagttc 300  
 aagtcacttc aattaaagaa acatttttga gcatgggacc agcctcaggt cttatgctgg 360  
 gatgcagtag acaggagatg gggaaattag aaaagagaac tgtgtaattg aaatgacgtg 420  
 ggctgcaccc ttaaggaact tataattaat gatgatctga ataaacatac caggataaag 480  
 atgtcaaagt agtgtgactc ccttaaagta gattaaagtg tgcattcttt gtttcctaaa 540  
 atatgatttt actgcttgaa attacatttg agttgaagtt tagaaactaa catagcatta 600  
 atatgaataa tgcattgaaa attattatcc tttgaaaact gattgataaa tatattcccc 660  
 ctcttttaga aacagtcaaa agccacttca aacaagtttc aaaataaagg aaggtagcaa 720  
 gttaggcgat ggattatatt ttcttggctt gttgtatacc cattggccag ggcctttata 780  
 aggactccca aaagcatttt gaagaatggc aatatcaaat aagtgtatgt cctctcaaat 840  
 gaggcatttt taattgttac aatctatttg gacgctcagg ttatgatatg tttatgaaaa 900  
 ataagcttca ttatttctta tagctacatc ctattattcc cttttagaaa caagaataac 960  
 aataagtttt aatagttgcc atacttagca tttatcaggt ctaatgaaac caatattgaa 1020  
 tctctgataa atattttctg atgttactag ctatgggaaa ttagaactgg cacaacctg 1080  
 acattactaa gtggaaatgt taggattttt cggcatcgca tgttagaatc tctaaaattt 1140  
 aaacattcct gttaaattgac taagggtttgc ttttatcaat atgaattctg aaggccaata 1200  
 tcataccatt aactatgaaa gcttttaatt cctaaaaata gttttagaga tattcaagca 1260  
 atgctctcct aatatccata cgcaagtgtg tttatgacac aaattcacta gtctgggtta 1320  
 aaaatgaaat ctttatattg actgggtgtc ccacatattc cagtaatttc tgttatgaga 1380  
 ggacttgaaa tagcaaatg cccacacagt taactggata gatcacgtac gtggtgatca 1440  
 taaccacttg gtactacacc cagaaactca aaattgtctt ttctcctgat gagattggg 1500  
 gtgtcctttt gtacgtctag ggccatgggt acccaagtga agtgaatata taagcaaat 1560  
 gtgtttgtat ccagagtctt cctgtcattg taataaaaaa tttatttaaa aatttaaaa 1619

<210> 16  
 <211> 421  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 428822.1

<400> 16  
 atggagtttc ttcattctgg taggttcgtg gtctctctgg cttcaggaat gaagctgtag 60  
 aactctgcga tgctgttatg aacttccctt agaatcaacc catttggtgaa acaccacatt 120  
 aataagagca gtatcttttg agattggaga gtccaccaag gatgccact ggctccctac 180  
 aaagtttttt atgtgaggac tcggtctcag atatggctac tgggattctg ttcaaactga 240  
 gtgaagacat catcatcttt ctttgagatc ttcttgctt tctggccaaa gaagttattc 300  
 cctgacccga ctttccaaag agtactagtt ccttttagca gtgattagaa acctgatctg 360  
 agtactactg tgtgtgcttg tgactagtgt gggtttattg tttctatgtc ctttcagcga 420  
 g 421

<210> 17  
 <211> 1549  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 898547.1

&lt;400&gt; 17

aacacatcag	atatttttcag	cactaaaaga	gatgggttttc	cccacatata	tgtaaaaagaa	60
atttgcaaga	ctactgggta	tcagaatggc	aaagcaactt	aaccttccag	aaaatacaga	120
tgattggaca	aaagaggatg	taaatcagtg	gttagaaaagt	cataagattg	acaaaaaca	180
cagggaaatt	ttgactgaac	aagacgtgaa	tggagcagtc	ttgaagtggg	taaaaaaaga	240
acatcttggt	gatatgggca	tcacacatgg	accagctatt	caaatagaag	aactattcaa	300
agaattgctg	aaaacagcca	ttgaagattc	gattcagaca	tctaagatgg	gaaagccag	360
taaaaaatgct	cctaaagacc	aaactgtgtc	tcaaaaaggaa	cgtagagaaa	cttcaaagca	420
aaaacaaaaa	ggtaaagaga	acccagatat	ggctaataccg	tctgcaatga	gtacaactgc	480
taaaaggttct	aagtcactaa	aagttgagct	catagaagat	aaaatagatt	atacaaagga	540
aagggaacca	tccatagacc	tgacatgtgt	atcatatcca	tttgatgaat	tcagtaatcc	600
atatcgttac	aagttggatt	ttagtctaca	gcctgaaaca	ggaccaggca	atctcattga	660
tccgatacat	gaattcaaag	ccttcacaaa	tacagcaaca	gccacagaag	aggatgtcaa	720
gatgaaattt	agcaatgagg	ttttccgatt	tgcttcagct	tgtatgaatt	cacgtaccaa	780
tggcactatt	cattttggag	tcaaagacaa	accccatggg	aaaattggtg	gcatacaagt	840
caccaatgat	accaaggaag	ccctcattaa	ccattttcaat	ctgatgataa	acaagtattt	900
tgaagaccat	caagtccaac	aagcaaagaa	gtgcattcga	gagccaagat	ttgtgggaagt	960
tttactgcc	aatagtactc	tatctgacag	atttggtatt	gaagtggaca	ttattccaca	1020
gttctctgaa	tgccaatatg	attacttcca	gattaaaatg	caaaattaca	acaacaaaat	1080
atgggaaacaa	agtaaaaaat	tctcactatt	tgtgcgagat	gggaccagct	ctaaggacat	1140
tacgaaaaat	aaagttgatt	tcagagcatt	taaagcagat	tttaaaacac	tggcagagtc	1200
cagaaaaagca	gcagaagaaa	aattcagagc	aaaaacaaat	aaaaaagaaa	gagagggacc	1260
aaagttggtt	aaattattga	caggaaatca	agatttggtt	gataattcat	actatgaaca	1320
gtacattctt	gtaacaaata	aatgccaccc	agatcaaaca	aaacacttag	atttcctgaa	1380
ggaaattaaa	tggtttgctg	tattggagtt	tgatcctgag	tctaacatca	atggagtggt	1440
caaagcttac	aaagaaagcc	gagtagcaaa	ccttcacttt	ccaagtgtat	atgtagaaca	1500
gaaaaccaca	ccaatgaga	cgattttctac	tctaaatctt	taccatcaa		1549

&lt;210&gt; 18

&lt;211&gt; 2484

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 231486.18

&lt;400&gt; 18

gtttattctt	gtattataac	cataacagtt	cactaattaa	attaaattta	ggaattgaat	60
tgtaagtta	atttggtttt	atatttatgt	ttagcattta	tgtggttcaa	agatcaaatc	120
tacaaaaata	tgtatagtca	aagaatctat	cttccttctc	tgccccttca	aataaatttc	180
tccccctctt	ccattagtaa	ccatataaaa	tttatatttt	acttgccttt	taaaatatgt	240
aacaaagtac	atataaattt	gctgctactc	ccttccttaga	gaagtggtag	aaaactatgt	300
tatattgact	tatcagacat	tgtttaactg	acatggcatt	tttctgctac	aaatgttcca	360
gcagttaata	atctttgcat	atatcatttt	gcatttttgt	cagtatatca	gtgggacaga	420
ttcccaacag	agaagtgcta	gatgaagagt	aaagtcatct	caccttggac	cccttccttc	480
cttgcgctct	gcttgatggg	accagctttt	tttctggaat	gctcttactt	ccatctgtgg	540
gcagattgcc	tctcttatct	agaacacttt	cagccatatt	cttattctct	ttagcagact	600
cactcctgct	attttagctc	tcagattaca	tgtcctttcc	tcacagaggc	cttacttgac	660
taggtgaaag	gactgctggc	ttacttgcat	aatgcctgtc	ttctctacca	agattggttag	720
cctcactacta	ttagagactt	ttctgttttg	tttaccattt	gattcacttg	cacagtgcct	780
ggtacatagt	ttgtgctcat	aaatattttt	tgaattaata	tcttgcttta	tgtctacctt	840
acagtttaat	cccatggaat	caatcaaatt	aaatcatcat	gactacattg	attccccatc	900
gctgaaggac	agaattcatt	gtgtggcatt	tgtatttgat	gccagctcta	ttcaatactt	960
ctcctctcag	atgatagtaa	agatcaaaag	aattcgaagg	gagttggtaa	acgctgggtg	1020
ggtacatgtg	gctttgctca	ctcatgtgga	tagcatggat	ttgattacaa	aaggtgacct	1080
tatagaaata	gagagatgtg	agcctgtgag	gtccaagcta	gaggaagtcc	aaagaaaact	1140
tggatttgct	ctttctgaca	tctcggtggg	tagcaattat	tctctgagt	gggagctgga	1200
ccctgtaaaag	gatgttctaa	ttctttctgc	ctgagacga	atgctatggg	ctgcagatga	1260
cttcttagag	gatttgcttt	ttgagcaaat	aggtagatgg	tttggtgggtg	tgggaagcttg	1320
gaagcgggtca	ggtagtgtgc	tactttctgc	ttggatctat	taaatacctg	gcagctctct	1380
gtctttttgt	gggttggtgc	cctgtgatta	gttctgcttt	ttaaccact	ccctggatgc	1440
atttttccct	ccttgcattt	ccctcttttc	ctggagttca	tactagagaa	tctgcactat	1500
gtttttccct	ttttgtcttg	agatgaaagt	tctaaaaata	tccacctctg	tcattttccac	1560
tctctgaaca	tcccaagctg	tatcctgggc	ctttttcttc	agactatgtt	tctttacttg	1620
ggacctagaa	ctggattgga	ttggcattgc	tcctgatcag	atgagacctt	tgattatttg	1680

1005183.01603

```

cccccttcctt aggaccttac actcctgtct ttctttgact tgcctttttg tttctttcct 1740
tcattcttagt ccctcttcat gcagtatggg cattgctagg tagaggtagt tcctttttatg 1800
taatggccac cgcatttagt attacataaa ctttctttta acaatctgtg catagtacat 1860
gctgctctgt tccatttaga gatttgacag aggtttcagt ttagtatact caaatcttat 1920
tttagtgctt gggaaatcaa ttccagaatat cacatcctct ccaattctct cttactcaaa 1980
ttgctgggaa actctcatgt tactaacttt gttgctctaa ctctgccatc ttggtttccc 2040
catcccttct cttcctcatg gtacgtgtgc tcctaattt agcgttgggt gagattttca 2100
gtgggtccaat attcctcttc cctctgggtg cctttcctga gataatccac taagaatatt 2160
ttgtgtttct tttctcaggg aatctaaggg aggaaattat caactgtgca caaggaaaaa 2220
aatagatatg tgaaagggtc acgtaaattt cctcacatca cagaagatta aaattcagaa 2280
aggagaaaaa acagaccaa gagaagtatc taagaccaa gggatgtgtt ttattaatgt 2340
ctaggatgaa gaaatgcata gaacattgta gtacttgtaa ataactagaa ataacatgat 2400
ttagtcataa ttgtgaaaaa taataataat ttttcttgga tttatgttct gtatctgtga 2460
aaaaataaat ttcttataaa actc 2484

```

<210> 19  
 <211> 851  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 409895.3

<220>  
 <221> unsure  
 <222> 205  
 <223> a, t, c, g, or other

```

<400> 19
agagcaaaga ctggatgcat ttcttgagaa caaccatcac tgtaaagcac tttacaaatc 60
caaagacaac ccccgcaaaa aactcaaaaat gaaactccct ctgcgagagc acaattccaa 120
ttcgctctaa aaacattaca agttagtcca tgcatgccca gatagctgaa ggcagctcac 180
aagttcttaa ggccaggaat gccangtgtc tgctatgcac agctggccct, ggccctgagc 240
ctgaatgaca gcaaagggtg cgcagatgtg ggtgccctgc tctgcccag cagcagtgct 300
tggtggaggg tgaggccctg cacaggcacc ctactgctg acctgagcc tctctctcct 360
ctcaagaggg tgccagtggg acattttctc ggccctgccca gccccagga ggaagggtggg 420
tctgaatcta gcaccatgac ggaactagag acagccatgg gcatgatcat agacgtcttt 480
tcccgatatt cgggcagcga gggcagcacg cagaccctga ccaaggggga gctcaagggtg 540
ctgatggaga aggagctacc aggtctcctg cagagtggaa aagacaagga tgccgtggat 600
aaattgctca aggacctgga cgccaatgga gatgccagg tggacttcag tgagttcatc 660
gtgttcgtgg ctgcaatcac gtctgcctgt cacaagtact ttgagaaggc aggactcaaa 720
tgatgccctg gagatgtcac agattcctgg cagagccatg gtcccaggct tcccaaaagt 780
gtttgttggc aattattccc ctaggctgag cctgctcatg tacctctgat taataaatgc 840
ttatgaaatg a 851

```

<210> 20  
 <211> 961  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3732868CB1

<220>  
 <221> unsure  
 <222> 19  
 <223> a, t, c, g, or other

```

<400> 20
ctggctctga ccgcgctgnc ctggggccga gagcccagga ggcgtgtctc agagaaaaga 60
tataagcggc ccccgacgc taaagcgggt ccagcggcgg agtctccaac tgggagagct 120
gcagctgccg agaggaggag aacgctgagg tcggtcggac caacggacgc gctgaccgct 180
gccaactgca gctcgcgctg cctcctgtct gcgcgcgtgc actaagggtc ctcccgctc 240
cgagagccca gagccgagat ggaaacggtc caggagctga tcccctggc caaggagatg 300

```

1051835 "011602"

```

atggcccaga agcgcaaggg gaagatggtg aagctgtacg tgctgggcag cgtgctggcc 360
ctcttcggcg tgggtgctcg cctgatggag actgtgtgca gccccttcac ggccgccaga 420
cgtctgcggg accaggaggc agccgtggcg gagctgcagg ccgccctgga gcgacaggct 480
ctccaagaagc aagccctgca ggagaaagcg aagcagcagg acacggctct cggcgggcgg 540
gcccgtgtcca accggcagca cgccctctag gaactgtggg agaccagcgg agtgggaggg 600
agacgcagta gacagagaca gaccgagaag gaagggagag acagaggggg cgcgcgca 660
ggagcctgac tccgctggga gagtgagga gcacgtgctg ttttttattt ggacttaact 720
tcagagaaac cgctgacatc tagaactgac ctaccacaag catccacca aggagtttgg 780
gattgagttt tgctgctgtg cagcactgca ttgtcatgac atttccaaca ctgtgtgaat 840
tatctaagt cgtctacatc tttgcactag ggaggaagga taaatgcttt ttatgttatt 900
attattaatt attacaatga ccaccatttt gcattttgaa ataaaaaact ttttatacca 960
t

```

<210> 21  
 <211> 2388  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2110909CB1

```

<400> 21
caggaacgcc agccgttcac gcgttcgggtc ctcttgggtc gactcacgc cctcgccgcc 60
gcaccatgga cgccccagg caggtgggtca actttgggcc tgggtccgcc aagctgccgc 120
actcagtgtt gttagagata caaaaggaat tattagacta caaaggagtt ggcattagtg 180
ttcttgaaat gagacacagg tcatcagatt ttgccaagat tattaacaat acagagaatc 240
ttgtgcggga attgctagct gttccagaca actataaggt gatttttctg caaggagggtg 300
ggtgcggcca gttcagtgtc gtccccttaa acctcattgg cttgaaagca ggaagggtgtg 360
cggactatgt ggtgacagga gcttggtcag ctaaggccgc agaagaagcc aagaagtttg 420
ggactataaa tatcgttcac cctaaacttg ggagttatac aaaaattcca gatccaagca 480
cctggaaacct caaccagat gcctcctacg tgtattattg cgcaaataag acggtgcatg 540
gtgtggagtt tgactttata cccgatgtca agggagcagt actggtttgt gacatgtcct 600
caaacttctc gtccaagcca gtggatgttt ccaagtttgg tgtgattttt gctgggtgcc 660
agaagaatgt tggctctgct ggggtcaccc tgggtattgt ccgtgatgac ctgctgggggt 720
ttgccctccg agagtgcgcc tcggctcctgg aatacaaggt gcaggctgga aacagctcct 780
tgtacaacac gcctccatgt ttcagcatct acgtcatggg cttgggttctg gaggtgatta 840
aaaacaatgg aggtgcgcg gccatggaga agcttagctc catcaaactt caaacaattt 900
atgagattat tgataattct caaggattct acgtttgtcc agtggagccc caaaatagaa 960
gcaagatgaa tattccattc cgcattggga atgccaagag agatgatgct ttagaaaaaa 1020
gatttcttga taaagctctt gaactcaata tgttgtcctt gaaagggcat aggtctgtgg 1080
gaggcatccg ggcctctctg tataatgctg tcacaattga agacgttcag aagctggccg 1140
ccttcatgaa aaaatttttg gagatgcac agctatgaac acatcctaac caggatatac 1200
tctgttcttg aacaacatac aaagttttaa gtaacttggg gatggctaca aaaagttaac 1260
acagtatttt tctcaaatga acatgtttat tgcagattct tcttttttga aagaacaaca 1320
gcaaaacatc cacaactctg taaagctggg gggaccta atgtcacctaa ttctgacttg 1380
aactggaagc attttaagaa atcttgttgc ttttctaaca aattcccgcg tattttgcct 1440
ttgctgctac tttttctagt tagatttcaa acttgcctgt ggacttaata atgcaagttg 1500
cgattaatta tttctggagt catgggaaca cacagcacag agggtagggg ggccctctag 1560
gtgctgaatc tacacatctg tgggtctcc tgggttcagc ggctgttgat tcaagggtcaa 1620
cattgacatc tggaggagtg gtttaagagt gccaggcgaa gggcaaactg tagatcgatc 1680
tttatgtgtg tattacagga gaagtgcac actttatata tgtttatatt agcaagggtct 1740
gtttttaata ccatatactt tatatttcta tacatttata tttctaataa tacagttatc 1800
actgatatat gtagacactt ttagaattta ttaaactcct gacctgtgac attatagcat 1860
tccattagca agagtgttac cccctcccca gtcttcgct tctctttttt aagctgtttt 1920
atgaaaaaga cctagaagtt cttgattcat ttttaccatt ctttccatag gtagaagaga 1980
aagttgattg gttggttgtt tttcaattat gccattaaac taaacatttc tgttaaatta 2040
ccctaatcct tgttctctac tgttttcttt gtaatgtatg actacgagag tgatactttg 2100
ctgaaaagtc tttccctatc tgtttactta ttgtcagtat tttatgttga atatgtaaag 2160
aacaggggaa agacttttca gcaaagtatc actctcgtag tcatacatta caaagaaaac 2220
agtagagAAC aaaggatagg gtaatttaac agaaatgttt agtttaatgg cataattgaa 2280
aaacaacca ccaatcaact ttctcttcta cctatggaaa gaatggtaaa aatgaatcaa 2340
gaacttctag gtcttttttca taaaacagct taaaagctta gttctaga 2388

```

<210> 22  
 <211> 2650

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1166265.1

<400> 22  
tatattacgc cacagcctct ggaaagtcca cagaagtgcg tgggaattcag agtctatgca 60  
tgagaggatg cagaaccgga ttagcaatag attgctggca gcgtgccatc aagcacctcc 120  
tgtgcgatct cacctgatct gaggataaat gaaggcaaag aatgtggccc cagccctgga 180  
ttggagtggg ggcaaggagg gtggcgagct gtcttcagca gtcggcctca cctctctgct 240  
cctgtatcaa caagtgccat ttcacccca cttccaatcc ccaacattta tccccgtcc 300  
ccgccttcca tacctccccg gctccgctcg gtccctggcc accccgcagc ccctgcccag 360  
gtgccatggc cgcattgtac cgccctggcc tgcggcttaa ctggcatggg ctgagccctt 420  
tgggctggcc atcatgccgt agcatccaga ccctgcgagt gcttagtgga gatctgggcc 480  
agcttccacac tggcattcga gattttgtag agcacagtgc ccgctgtgc caaccagagg 540  
gcatccacat ctgtgatgga actgaggctg agaatactgc cacactgacc ctgctggagc 600  
agcagggcct catccgaaag ctccccaagt acaataactg ctggctggcc cgcacagacc 660  
ccaaggatgt ggcacgagta gagagcaaga cggtgattgt aactccttct cagcgggaca 720  
cggtagcact ccgcctgggt gggggcccgtg ggcagctggg caactggatg tccccagctg 780  
atttccagcg agctgtggat gagagggttc caggctgcat gcagggccgc accatgtatg 840  
tgcttccatt cagcatgggt cctgtgggct ccccgctgtc ccgcatcggg gtgcagctca 900  
ctgactcagc ctatgtgggt gcaagcatgc gtattatgac ccgactgggg acacctgtgc 960  
ttcaggccct gggagatggg gactttgtca agtgtctgca ctccgtgggc cagcccctga 1020  
caggacaagg ggagccagtg agccagtggc cgtgcaacc cagagaaaacc ctgattggcc 1080  
acgtgcccga ccagcgggag atcatctctt tcggcagcgg ctatgggtggc aactccctgc 1140  
tgggcaagaa gtgctttgac ctacgcacgc cctctcggct ggcccgggat gagggctggc 1200  
tggcagagca catgctgac ctgggcatca ccagccctgc agggagaag cgctatgtgg 1260  
cagccgcctt ccctagtgc tgtggcaaga ccaacctggc tatgatgcgg cctgcactgc 1320  
caggctggaa agtggagtgt gtgggggatg atattgcttg gatgagggtt gacagtgaag 1380  
gtcgactccg ggccatcaac cctgagaacg gcttcttttg ggttgccctt ggtacctctg 1440  
ccaccaccaa tcccaacgcc atgggtacaa tccagagtaa cactattttt accaatgtgg 1500  
ctgagaccag tgatggtggc gtgtactggg agggcattga ccagcctctt ccacctgggt 1560  
ttactgtgac tccctggctg ggcaaaccct ggaaacctgg tgacaaggag cctgtgac 1620  
atcccaactc tcgattttgt gcccgggctc gccagtgcct catcatggac ccagcctggg 1680  
aggccccaga ggggtgtccc attgacgcca tcatcttttg tggccgcaga cccaaagggg 1740  
taccctgggt atacgaggcc ttcaactggc gtcatggggg gtttgtgggc agcgccatgc 1800  
gctctgagtc cactgctgca gcagaacaca aagggaagat catcatgcac gacctatttg 1860  
ccatgcggcc ctttttttggc tacaacttcg ggcactacct ggaacactgg ctgagcatgg 1920  
aaggggcgaa gggggcccag ctgcccgtta tcttccatgt caactgggtc cggcgtgacg 1980  
aggcagggca cttcctgtgg ccaggctttg gggagaatgc tcgggtgcta gactggatct 2040  
gccggcgggt agagggggag gacagtgcct gagagacacc cattgggctg gtgcccagg 2100  
aaggagcctt ggatctcagc ggcctcagag ctatagacac cactcagctg ttctccctcc 2160  
ccaaggactt ctgggaacag gaggttcgtg acattcggag ctacctgaca gagcaggtca 2220  
accaggatct gcccaaagag gtgttggtcg agcttgaggc cctggagaga cgtgtgcaca 2280  
aatgtgacc tgaggcccta gtctagaag aggcataag accctcatct ggggaatagg 2340  
aaggcacctt gcagaaaata tgagcaattt gatattaact aacatcttca atgtgccata 2400  
gaccttccca caaagactgt ccaataataa gagatgctta tctattttac acaagatttg 2460  
tgctgttttc atttcccacc tatgttcaca ggcttccctg taacaccggg ctgtcacaat 2520  
catcttggtc cagcccctag aagaagcaca gcctggcgac aatcaaagat ctgttttaca 2580  
ggtagcttta gcactgggtc acagacatag gaattgctgg gagaaggcac tatccactct 2640  
atgtcctgag 2650

<210> 23  
<211> 1744  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3346307CB1

<400> 23  
ccaaggggga ggtgcgagcg tggacctggg acgggtctgg gcggctctcg gtggttggca 60  
cgggttcgca caccattca agcggcagga cgcacttgct ttagcagttc tcgctgaccg 120

cgctagctgc ggcttctacg ctccggcact ctgagttcat cagcaaacgc cctggcgctct 180  
gtcctcacca tgcctagcct ttggggaccgc ttctcgtcgt cgtccacctc ctcttcgccc 240  
tcgtccttgc cccgaactcc caccacagat cggccgcgcg gctcagcctg ggggtcggcg 300  
acccgggagg aggggtttga ccgctccacg agcctggaga gctcggactg cgagtcctg 360  
gacagcagca acagtggctt cgggcccggag gaagacacgg cttacctgga tgggggtgtcg 420  
ttgcccgaact tcgagctgct cagtgaacct gaggatgaac acttgtgtgc caacctgatg 480  
cagctgctgc aggagagcct ggcccaggcg cggctgggct ctcgacgccc tgcgcgcctg 540  
ctgatgccta gccagttggt aagccagggt ggcaaagaac tactgcgcct ggcctacagc 600  
gagccgtgcg gcctgccccg ggcgctgctg gacgtctgctg tggagcaggg caagagctgc 660  
cacagcgtgg gccagctggc actcgacccc agcctgggtg ccaccttcca gctgacctc 720  
gtgctgcgcc tggactcacg actctggccc aagatccagg ggctgtttag ctccgccaac 780  
tctcccttcc tccctggctt cagccagtcct ctgacgctga gcaactggctt ccgagtcac 840  
aagaagaagc tgtacagctc ggaacagctg ctcatgtagg agtggtgaac ttcaacctga 900  
gggggcccgc agtgccctcc aagacagaga cgactgaact tttgggggtg agactagagg 960  
caggagctga gggactgatt ccagtgggtg gaaaactgag gcagccacct aaggtggagg 1020  
tgggggaata gtgtttccca ggaagctcat tgagttgtgt gcgggtgggt gtgcattggg 1080  
gacacatacc cctcagtact gtagcatgaa acaaaggctt aggggccaac aaggcttcca 1140  
gctggatgtg tgtgtagcat gtaccttatt atttttgtta ctgacagtta acagtgggtg 1200  
gacatccaga gagcagctgg gctgctcccg cccagcccgc gccaggggtg aaggaagagg 1260  
cacgtgctcc tcagagcagc cggagggagg ggggaggtcg gaggtcgtgg aggtgggttg 1320  
tgtatcttac tggctctgaag ggaccaagtg tgtttgttgt ttgttttcta tctgttttt 1380  
ctgatcggag catcactact gacctgttgt aggcagctat cttacagacg catgaatgta 1440  
agagtaggaa ggggtgggtg tcagggtaca cttgggtatc ttgacacttg aaaaattaca 1500  
cctggcagct gcgtttaagc cttcccccat cgtgtactgc agagttgagc tggcagggga 1560  
ggggctgaga ggggtggggc tggaacccct ccccgaggag agtgccatct gggcttcca 1620  
tctagaactg tttacatgaa gataagatac tcaactgttca tgaatacact tgatgttcaa 1680  
gtattaagac ctatgcaata ttttttactt ttctaataaa catgtttgtt aaaacaaaaa 1740  
aaaa 1744

<210> 24  
<211> 974  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 406992.1

<400> 24  
cagctaatta aaggtcaaac gcagaacttt aaagacgcct tttcaggaag agattcaagt 60  
attacgcggt tgccactggc tttttattat ggaatgtatg catatgctgg ctgggttttac 120  
ctcaactttg ttactgaaga agtagaaaac cctgaaaaaa ccattcccct tgcaatatgt 180  
atatccatgg ccattgtcac cattggctat gtgctgacaa atgtggccta ctttacgacc 240  
attaatgctg aggagctgct gctttcaaat gcagtggcag tgaccttttc tgagcggcta 300  
ctgggaaatt tctcattagc agttccgata tttgttgccc tctcctgctt tggctccatg 360  
aacgggtggtg tgtttgctgt ctccaggtta ttctatgttg cgtctcgaga gggtcacctt 420  
ccagaaatcc tctccatgat tcatgtccgc aagcacactc ctctaccagc tgttattggt 480  
ttgcaccttt tgacaatgat aatgctcttc tctggagacc tcgacagtct tttgaatttc 540  
ctcagttttg ccaggtggct ttttattggg ctggcagttg ctgggctgat ttatcttcga 600  
tacaatgcc cagatatgca tcgtcctttc aaggtgccac tgttcatccc agctttgttt 660  
tccttcacat gcctcttcat gggtgccctt tccctctatt cggacccatt tagtacaggg 720  
attggcttcg tcatcactct gactggagtc cctgcgtatt atctctttat tatatgggac 780  
aagaaaccca ggtggtttag aataatgtca gagaaaataa ccagaacatt acaaataata 840  
ctggaagtgt taccagaaga agataagtta tgaactaatg gacttgagat cttggcaatc 900  
tgcccaaggg gagacacaaa atagggattt ttacttcatt ttctgaaagt ctagagaatt 960  
acaactttgg tgat 974

<210> 25  
<211> 2346  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 200578.1

10051335\_011602

&lt;400&gt; 25

```

gccagagggg aaaaaaagag taatgcacag gtatctcttt tgcagtgggt actgtatttt 60
gagtaccttg ttgtgacagg gtattattac agcatcttgt gggaaaacct attaggcctt 120
tgcattgttta agctgtataa tttgttgggt tgtgagtggg ctgacttaaa tgtgtattat 180
aaaaatttaga catcaaattt tctactaac taactttatt agatgcatac ttggaagcac 240
agtcatatca cactgggagg caatgcaatg tggttacctg gtcctagggt tgaactgtct 300
tatttcaaaa gatttctgaa ttaatttttc cctagaattt ctccttcatt ccaaagtaca 360
aacatacttt gaagaatgaa acagattggt cccatgaatg tatgtcata ctcgactaga 420
aacgatctat gttaaatgac tgtgtatatg aattatttca agtactacc caaataactt 480
tcttattgct ctgaaagaag aaaagcaatg taaatcacta tgattattgc acaaacaacc 540
agaattctcc aacaatttta agtaatctga tctcttctt ggagaaaatt gttacctaat 600
agtttttctt tatgaatggt attactactg gtataaatca aatttctata aatttctctac 660
ttaagtctta agaactgggt tcttcttttg atgttattca tgttcagaaa ggaaacaaca 720
ctttactctt ttaggacaat tcttagaatc tatagtagta tcaggatata ttttgcttta 780
aaatatattt tggttatttt gaatacacagc attggctcca aattttcatc tttgcacaat 840
agtatgactt ttcactagaa cttctcaaca tttgggaact ttgcaaata gagcatcata 900
tgtgttaagg ctgtatcatt taatgctatg agatacattg ttttctccct atgccaaaca 960
ggtagaaciaa cgtagtgtgt ttttactgat actaaatggt ggctacctgt gattttatag 1020
tatgcacatg tcagaaaaag gcaagacaaa tggcctcttg tactgaatac ttcggcaaac 1080
ttattgggtc ttcattttct gacagacagg atttgactca atattttag agcttgcgta 1140
gaatggatta catggtagtg atgcactggt agaaatgggt tttagttatt gactcagaat 1200
tcacttcagg atgaatcttt tatgtctttt tattgtaagc atatctgaat ttactttata 1260
aagatgggtt tagaaagctt tgtctaaaaa tttggcctag gaatggtaac ttcattttca 1320
gttgccaagg ggtagaaaaa taatatgtgt gttgttatgt ttatgttaac atattattag 1380
gtactatcta tgaatgtatt taaatatttt tcatattctg tgacaagcat ttataatttg 1440
caacaagtgg agtccattta gccagtggtg aaagtcttgg aactcagggt acccttgaag 1500
gatatgctgg cagccatctc tttgatctgt gcttaaactg taatttatag accagctaaa 1560
tcctaaactt ggccttgtaa tgcattagtt atgaccttgt accattccca gaatttcagg 1620
ggcatcgtgg gtttgggtct gtgattgaaa acacaagaac agagagatcc agctgaaaaa 1680
gagtgatcct caatatccta actaactggt cctcaactca agcagagttt cttcactctg 1740
gcactgtgat catgaaactt agtagagggg attgtgtgta ttttatacaa atttaataca 1800
atgtcttaca ttgataaaat tcttaaagag caaaactgca ttttatttct gcattccacat 1860
tccaatcata ttagaactaa gatattttatc tatgaagata taaatgggtgc agagagactt 1920
tcactgtggt attgcgttgt tcttaggggt tcttagcact gatgcctgca caagcatgtg 1980
atatgtgaaa taaaatggat tcttctatag ctaaagtagt tccctctggg gagagttctg 2040
gtactgcaat cacaatgcca gatgggtgttt atgggctatt tgtgtaagta agtggttaaga 2100
tgctatgaag taagtgtgtt tgttttcatc ttatggaaac tcttgatgca tgtgcttttg 2160
tatggaataa attttgggtgc aatatgatgt cattcaactt tgcattgaat tgaatttttg 2220
ttgtatttat atgtattata cctgtcacgc ttctagttgc ttcaaccatt ttataaccat 2280
ttttgtacat attttacttg aaaatatttt aaatggaaat ttaaataaac atttgatagt 2340
ttacat

```

1051335-01150